

Numark[®]

Professional Disc Jockey Products

NPA3300/NPA6600 **PROFESSIONAL AMPLIFIER**



OPERATING MANUAL

Safety Information and Product Registration



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE ANY COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying this appliance.

CAUTION

FOR USA & CANADIAN MODELS ONLY
TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

SAFETY INSTRUCTIONS

1. Read Instructions - All the safety and operating instructions should be read before this product is connected and used.
2. Retain Instructions - The safety and operating instructions should be kept for future reference.
3. Heed Warnings - All warnings on this product and in these operating instructions should be followed.
4. Follow Instructions - All operating and other instructions should be followed.
5. Water and Moisture - This product should be kept away from direct contact with liquids.
6. Heat - Avoid placing this product too close to any high heat sources such as radiators.

7. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation opening; or, placed in a built-installation, such as bookcase or cabinet that may impede the flow of air through the ventilation openings.

8. Power Sources - This product should be connected to a power supply only of the type described in these operating instructions, or as marked on the unit.
9. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked upon or pinched by items placed on or against them. When removing the cord from a power outlet be sure to remove it by holding the plug attachment and not by pulling on the cord.




10. Object and Liquid Entry - Take care that objects do not fall into and that liquids are not spilled into the inside of the mixer.
11. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
12. Non-use Periods - The power cord of the appliance should be unplugged from the outlet when left unused for long periods of time.
13. Damage Requiring Service - Only qualified personnel should service this product. If you have any questions about service please contact Numark at the number(s) shown on the back cover of this manual.

14. Grounding or Polarization - Precautions should be taken so that the grounding or polarization means built into the CD player is not defeated.
15. Internal/External Voltage Selectors - Internal or external voltage selector switches, if any, should only be reset and re-equipped with a proper plug for alternative voltage by a qualified service technician. Do not attempt to alter this yourself.

WARNING: To reduce the risk of fire or electrical shock, do not expose this appliance to rain or moisture. Electrical equipment should NEVER be kept or stored in damp environments.

SERVICE INSTRUCTIONS

- Disconnect power cord before servicing
- Replace critical components  only with factory parts or recommended equivalents
- For AC line powered units - Before returning repaired unit to user, use an ohmmeter to measure from both AC plug blades to all exposed metallic parts. The resistance should be no more than 100,000ohms.

Unpacking / Setup: Please check your amplifier for any damage after unpacking (before connecting) and contact your dealer in case of any related complaints. Take care of choosing your installation place and the correct AC connection. If built into a case, be aware that the depth and the weight of the amplifier does require an additional fixing on the backside or the use of rack shelf supports. Never mount the amplifier in a rack just by fixing it on the front plate - we can show no responsibility for damage on the rack or the amplifier in this case.

Always try to separate low level cables (input cables) and high level cables (AC net and speaker outputs) to avoid interference.

DOUBLE INSULATED - When servicing use only identical replacement parts

For 220-volt use in USA, use NEMA style 220-volt plug. For other countries use proper plug for local outlet.

Check the total maximum power of your AC wall outlet if you connect several units to one wall outlet and avoid to overload the wall outlet, which could cause fire.

Health Advice: This unit produces and absorbs electromagnetic radiation. The strength of radiation and the sensitivity for disturbing interference matches the CE requirements. A corresponding sign is printed on the backside of the unit. Any change or modification may affect the behavior of the unit concerning electromagnetic radiation, with the CE requirements eventually not to be met any more. The manufacturer takes no responsibility in this case.

Please record the serial number of your unit as shown on the back of the chassis as well as the name of the dealer from whom you purchased the unit. Retain this information and your original purchase receipt for your records. Please return the enclosed warranty card to register unit with us.

MODEL: _____ PURCHASED FROM: _____
 SERIAL NUMBER: _____ DATE OF PURCHASE: _____

Numark[®] NPA3300/NPA6600

PROFESSIONAL AMPLIFIER

CONGRATULATIONS...

Thank you for choosing a NUMARK power amplifier. These units are designed to provide a good combination of power, audio clarity, and reliable operation. The basic circuit has been kept as simple as possible to reduce the amount of components, thereby shortening the signal path, coloration and the chance of component failure. However, we opted to add what we regard as essential protection against overheating, short circuits and power on transients.

An efficient heat dissipation system, comprising a high surface area heatsink coupled with one or two fans (depending on power rating of amp), ensures quiet and reliable cooling.

The sound quality and sturdy construction of the makes these amps ideal for a multitude of amplification tasks, from installations, mobile DJs, home studios, houses of worship and touring bands.

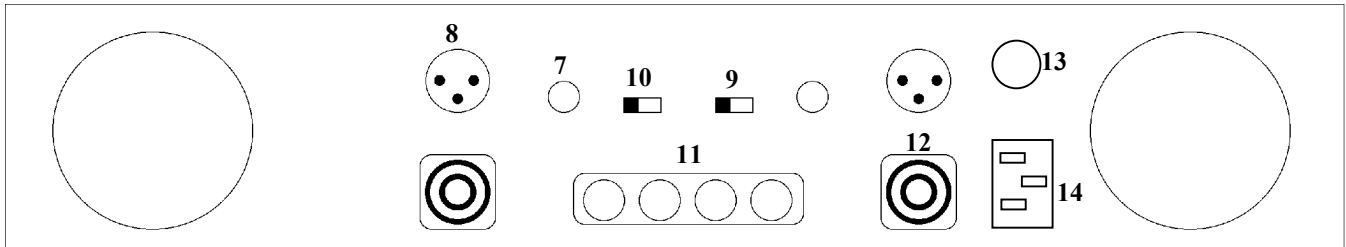
Since all of the amplifiers are similar in operation, this manual serves for all models. Please take the time to read this manual before connecting and operating your unit, as there is important information contained within.

Front Panel Diagram



1. **Power Switch-** Press the upper side to turn amplifier on; press the lower side to turn the unit off.
2. **Status LEDs-** The red Standby LED will light when the amplifier is turned on. It will stay lit about 3 seconds while the amplifier circuits stabilize. After that, the red LED will turn off and the green Normal LED will glow that amplifier is ready to operate.
3. **Level controls-** Rotate controls clockwise to increase volume.
4. **Signal indicators-** Light up when the signal input provides greater than 0.2 watts output.
5. **Over indicators-** Light up when the input signal levels exceed maximum output and clipping occurs. Consistent lighting of these LEDs can cause both amplifier and speaker damage. Always avoid clipping.
6. **Protect indicators-** Light up when one of the built-in protection circuits is activated.

Rear Panel Diagram



7. **Unbalanced inputs-** Connect mixer outputs with 1/4" input plugs for right and left channels.
 8. **Balanced inputs-** Connect a balanced signal through XLR input connectors. These should be used for all long cable runs. Please note: Pin 1 Ground, Pin 2 Positive (+), Pin 3 Negative (-)
 9. **Stereo/Bridge Mode Switch-** Bridged mono operation is easily achieved and gives you the output power of both channels on just one mono output. For successful bridge operation, follow these instructions:
 - Set the Mode Selector to Bridge.
 - Connect a mono input signal to right input jack, channel 1.
 - Use only the terminal post outputs for speaker wiring, not the Speakon outputs. Connect the speaker load to the red terminals of each channel. Please confirm the (+) terminal of speaker to channel Right and the (+) terminal to channel Left. Do not use the black terminals of each channel.
 - The minimum load impedance in bridge mode is 8 Ohm.
 - To adjust level use channel 2 control and leave channel 1 level at zero.
 10. **Ground/Lift-Switch-** To eliminate the ground loops between this amplifier and a preamplifier. Never remove the center grounding pin of the AC plug!
 11. **Output Terminals-** Output connections are to binding posts, which are identified as to polarity with a red and a black terminal. We suggest the use of dual banana plugs as a convenient and reliable method of hook-up. They allow rapid removal for polarity reversals, which is handy in the check-out and adjustment of multi-element biamplified and triamplified sound systems. Heavy Class 11 wire may be used by unscrewing the large plastic portion of the output terminal and inserting the wire into the hole provided. It is extremely important when making wire connections that no wire strand or end touches the adjacent terminal, shorting the output. Please do not use these outputs simultaneously with the speakon outputs, only alternatively.
- CAUTION: Never strap the two red output terminals together (in parallel). Never connect either red output to chassis ground.**
12. **Speakon outputs.** For better contact security, use of these outputs is strongly recommended in all applications, especially mobile systems. Do not use these outputs simultaneously with the output terminals, only alternatively. Note the correct pin designation for the used speakon connectors: pos=1 + / neg = 1- / 2+, 2- not connected.
 13. **Fuse holder.** This fuse holder contains AC primary fuse. Fuse should be replaced by same type fuse when this is blown out. Disconnect the amplifier from AC mains before replacing a fuse. If they continuously blow, stop replacing fuse and refer servicing to qualified personnel.
 14. **AC Power cord socket.** Plug-in the supplied AC cord here and connect it into an AC outlet.

SPECIFICATIONS

Output power:	NPA3300: 2x150W@4 ohm, 2x100W@8 ohm, 1x280W@8ohm bridged NPA6600: 2x300W@4 ohm, 2x200W@8 ohm, 1x480W@8 ohm bridged
Input sensitivity:	NPA3300 < 900mV NPA6600 < 1200mV
Input impedance:	22kOhm (unsym) - 33kOhm (sym)
Channel separation:	>70dB@1kHz
Frequency response:	10Hz ... 100kHz
S/N ratio (JISA weighted):	NPA3300: 115dB NPA6600: 117dB
THD:	<0.1% at rated power
Damping factor:	100@8Ohm
Dimensions:	482mmx 88mmx 450mm including handles
Weight:	NPA3300: 15.5kg NPA6600: 21.kg
AC power requirement idle/max (4 Ohm Load):	NPA3300: 45/530W NPA6600: 55/1040W
Mains voltage:	230V/50Hz AC

Notes on protection circuits:

These amplifiers are equipped with different protection circuits to prevent any damage to the amplifier itself or the speakers due to improper operation circumstances.

1. **Overheat-** For low mechanical noise emission, the built-in fan operates at low speed as long as the internal heat sink keeps cooler than 55 degrees Celsius. The fan will speed up to maximum speed when this temperature is exceeded. When the heat sink temperature exceeds 90 degrees Celsius, the amplifier will shut down the outputs to avoid overheating. The outputs will be automatically re-activated when the heat sink comes below 70 degrees Celsius.
2. **DC on output-** When DC is detected on the output, the amplifier will shut down the outputs to avoid speaker damage.
3. **Short circuit on the output-** When a short circuit is detected on the output, the amplifier will shut down the outputs to avoid damage to itself.

Numark[®]

Professional Disc Jockey Products

LIMITED PRODUCT WARRANTY

1. What is covered and for how long? NUMARK INDUSTRIES LCC ("NUMARK") warrants to the original purchaser that NUMARK'S DJ mixers and amplifiers are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase from an authorized NUMARK dealer and continuing for the following period of time after that date for (2) Years. The warranty is extended to (3) Years with the completion of the warranty card provided that the warranty card is completed and returned within (30) days from the date of purchase. All other NUMARK products are warranted for (1) Year including but not limited to CD players, turntables, preamplifiers, beatkeepers, equalizers, microphones, headphones, and all other accessories.
2. What is not covered? This Limited Warranty is conditioned upon proper use of the product by the purchaser.
This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abuse, neglect, unusual physical or electrical stress, modification of any part of the product, or cosmetic damage; (b) equipment that has the serial number removed or made illegible; (c) all plastic surfaces and other externally exposed parts that are scratched or damaged due to normal use; (d) defects or damage from improper testing, operation, maintenance, installation, adjustment, or service of the mixers; (e) crossfaders.
3. What are NUMARK'S obligations? During the applicable warranty period, NUMARK will repair or replace, at NUMARK'S sole discretion, without charge to the purchaser, any defective component part of the mixer. To obtain service under this Limited Warranty, purchaser must first contact NUMARK and obtain a return authorization number ("RA#"). Purchaser must then return the mixer to NUMARK in an adequate container for shipping, accompanied by purchaser's sales receipt or comparable proof of sale showing the date of purchase, the serial number of the product, and the seller's name and address. To obtain an RA# and assistance on where to return the mixer, contact NUMARK customer service at 401-295 9000. Upon receipt, NUMARK will repair or replace the defective products. NUMARK may, at NUMARK'S sole discretion, use rebuilt, reconditioned, or new parts or components when repairing any product or replace a product with a rebuilt, reconditioned or new product. Repaired mixers will be warranted for a period equal to the remainder of the original Limited Warranty on the original mixer or for (90) days, whichever is longer. All replaced parts, components, boards and equipment become the property of NUMARK. If NUMARK determines that any mixer is not covered by this Limited Warranty, purchaser must pay all parts, shipping, and labor charges for the repair or return of such mixer.
4. What are the limits on NUMARK'S liabilities? THE WARRANTIES GIVEN IN THIS LIMITED WARRANTY, TOGETHER WITH ANY IMPLIED WARRANTIES COVERING NUMARK MIXERS, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, NUMARK SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, INDIRECT OR SIMILAR DAMAGES, LOSS OF PROFITS, DAMAGES TO PURCHASER'S PROPERTY, OR INJURY TO PURCHASER OR OTHERS ARISING OUT OF THE USE, MISUSE OR INABILITY TO USE ANY NUMARK MIXER, BREACH OF WARRANTY, OR NEGLIGENCE, INCLUDING BUT NOT LIMITED TO NUMARK'S OWN NEGLIGENCE, EVEN IF NUMARK OR ITS AGENT HAS BEEN ADVISED OF SUCH DAMAGES, OR FOR ANY CLAIM BROUGHT AGAINST PURCHASER BY ANY OTHER PARTY. THIS LIMITED WARRANTY IS THE COMPLETE WARRANTY FOR NUMARK'S MIXERS, AND IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THIS PRODUCT AND STATES PURCHASER'S EXCLUSIVE REMEDY. IF ANY PORTION OF THIS LIMITED WARRANTY IS ILLEGAL OR UNENFORCEABLE BY REASON OF ANY LAW, SUCH PARTIAL ILLEGALITY OR UNENFORCEABILITY SHALL NOT AFFECT THE ENFORCEABILITY OF THE REMAINDER OF THIS LIMITED WARRANTY WHICH PURCHASER ACKNOWLEDGES IS AND WILL ALWAYS BE CONSTRUED TO BE LIMITED BY ITS TERMS OR AS LIMITED AS THE LAW PERMITS. This Limited Warranty allocates risk of product failure between purchaser and NUMARK, and NUMARK'S product pricing reflects this allocation of risk and the limitations of liability contained in this Limited Warranty. The agents, employees, distributors, and dealers of NUMARK are not authorized to make modifications to this Limited Warranty, or make additional warranties binding on NUMARK. Accordingly, additional statements such as dealer advertising or presentation, whether oral or written, do not constitute warranties by NUMARK and should not be relied upon.
5. How does state law apply to this warranty? SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO PURCHASER.
6. This Limited Warranty gives you specific legal rights. You may also have other rights, which vary from one jurisdiction to another.

RETURN INFORMATION

1. A Return Authorization number must be obtained from Numark through the address or phone numbers below.
2. A copy of the original sales receipt must also be included for the equipment to be repaired under warranty.
3. The faulty equipment must be packed in its original packaging.
4. One additional outer layer of packaging must be included to ensure product safety. Failure to do so may inadequately protect the equipment in transit and, therefore, jeopardize the customer's warranty.
5. Numark will not accept COD shipments and no call tags will be issued for merchandise return.
6. Numark will not return repaired merchandise to customers by priority service, unless by written request at the customer's cost. Requests must be submitted in writing with merchandise returned.
7. The defective Numark equipment should be sent, FREIGHT PREPAID with Return Authorization number clearly printed on the outer packaging and original sales receipt enclosed to:

Numark INDUSTRIES
Attention: Service Department
11 Helmsman Avenue
North Kingstown, RI 02852 USA

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